

## List of Figures

Figure III.A-1. 47-State Light-Duty NO <sub>x</sub> Emissions Without Tier 2/Sulfur (Annualized Summer Tons) .....	III-6
Figure III.A-2. Breakdown of Total 2030 47 State NO <sub>x</sub> Inventory Without Tier 2 .....	III-9
Figure III.A-3. Breakdown of Total 2030 Atlanta NO <sub>x</sub> Inventory Without Tier 2 .....	III-9
Figure III.A-4. 47-State Light-Duty NO <sub>x</sub> Emissions With Tier 2/Sulfur (Annualized Summer Tons) .....	III-11
Figure III.A-5. Breakdown of Total 2030 47-State NO <sub>x</sub> Inventory With Tier 2/Sulfur ....	III-14
Figure III.A-6. Breakdown of Total 2030 Atlanta NO <sub>x</sub> Inventory With Tier 2/Sulfur ....	III-14
Figure III.A-7. 47-State Light-Duty VOC Emissions Without Tier 2/Sulfur (Annualized Summer Tons) .....	III-17
Figure III.A-8. Breakdown of Total 2030 47-State VOC Inventory Without Tier 2/Sulfur .....	III-20
Figure III.A-9. Breakdown of Total 2030 Atlanta VOC Inventory Without Tier 2/Sulfur ..	III-20
Figure III.A-10. 47-State Light-Duty VOC Emissions With Tier 2/Sulfur (Annualized Summer Tons) .....	III-22
Figure III.A.-11. Breakdown of Total 2030 47-State VOC Inventory With Tier 2/Sulfur ..	III-25
Figure III.A-12. Breakdown of Total 2030 Atlanta VOC Inventory With Tier 2/Sulfur ...	III-25
Figure III.A-13. 47-State Light-Duty SO <sub>x</sub> Emissions Without Sulfur Control (Annual Tons) .....	III-28
Figure III.A-14. 47-State Light-Duty SO <sub>x</sub> Emissions With Sulfur Control (Annual Tons) .....	III-30
Figure III.A-15. 47-State Light-Duty Direct Exhaust PM <sub>10</sub> Emissions Without Tier 2/Sulfur - No Diesel Growth (Annual Tons) .....	III-32
Figure III.A-16. 47-State Light-Duty Direct Exhaust PM <sub>10</sub> Emissions With Tier 2/Sulfur - No Diesel Growth (Annual Tons) .....	III-35
Figure III.A-17: 47-State Light-Duty Direct Exhaust PM <sub>10</sub> Without Tier 2/Sulfur - Increased Diesel Sales (Annual Tons) .....	III-37
Figure III.D-1. Example Plot of Target Fuel Benzene Versus Baseline Fuel TOG under FTP Conditions .....	III-96
Figure IV-1. Impact of Coating Architecture on HC and NO <sub>x</sub> Emissions .....	IV-11
Figure IV-2: 50,000 mile equivalent NO <sub>x</sub> vs. NMHC levels for a number of hardware and engine calibration configurations tested with a 1999 GM Chevrolet Silverado Pickup (5.3L V8) originally certified to the LEV MDV-2 standard (0.4 g/mi NO <sub>x</sub> , 0.16 g/mi NMOG). IV-30	
Figure IV-3: 50,000 mile equivalent NO <sub>x</sub> vs. NMHC emissions levels for a number of hardware and engine calibration configurations tested with a 1999 Ford Expedition (5.4L V8) originally certified to the LEV MDV-3 standard (0.6 g/mi NO <sub>x</sub> , 0.195 g/mi NMOG) .....	IV-31
Figure IV-4. Map of U.S. Petroleum Administrative Districts for Defense .....	IV-41
Figure IV-5. Diagram of a Typical Complex Refinery .....	IV-45

## **Tier 2/Sulfur Regulatory Impact Analysis - December 1999**

---

Figure V-1. Distribution of Progress Ratios .....	V-25
Figure V-2. Total Annualized Costs of Tier 2 Vehicles and Low Sulfur Gasoline. ....	V-91